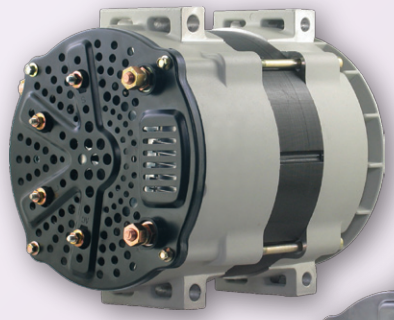
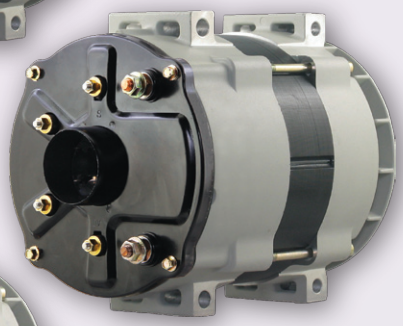
DelStar®
HD Brushless

Series 170

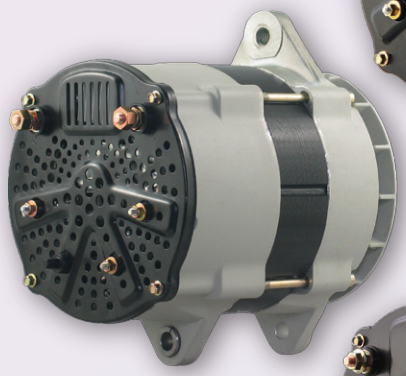
SIDE BY SIDE COMPARISON

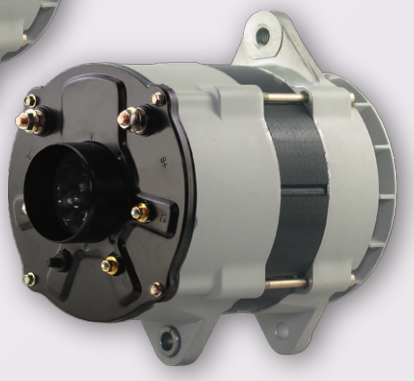
12V-350A 260A at engine idle
12V-300A 170A at engine idle





With air intake cover





With air intake cover

APPLICATIONS:

- Fire Trucks
- Long Haul Trucks
- School & Shuttle Buses
- Utility & Work Vehicles

INNOVATIVE FEATURES

- **HIGH EFFICIENCY:**
  High efficiency means cooler internal alternators operating temperatures resulting in less engine horsepower required and maximizing fuel savings. Our unique air flow design offers a more efficient air flow through the windings which directly translates in maximum output and efficiencies.

- **TEMPERATURE RATING:**
  All our alternators are validated to work and operate in today's ambient air temperatures of up to125ºC / 257ºF

- **DEBRIS FREE & COOLER OPERATION:**
  For high debris or high temperature environments, all DelStar series alternators are available with an optional Air Intake Cover by adding the letter "D" after the part No. The Ducted air allows filtered or fresh air flow to the unit which will improve output, efficiency and extends the alternator service life.

- **SOFT START DELAY (SSD) & LOAD RESPONSE CONTROL (LRC):**
  Again "SETTING the STANDARD" with a newly introduced SMART REGULATOR where at engine start up, the regulator monitors the (low) engine RPM, it controls and gradually introduces alternator output to eliminate engine torque decrement due to a sudden and abrupt load transition at low RPM.

- **OVERVOLTAGE SHUT-DOWN (OSD):**
  Designed to protect onboard electronics that are very sensitive to high voltage conditions, by shutting down the alternator output and restoring output only when the voltage is stabilized to or below the regulator voltage set point.

WARRANTY:
3 Years Limited Warranty

170-SBS-COM 150615

DelStar® 350A — Series 170

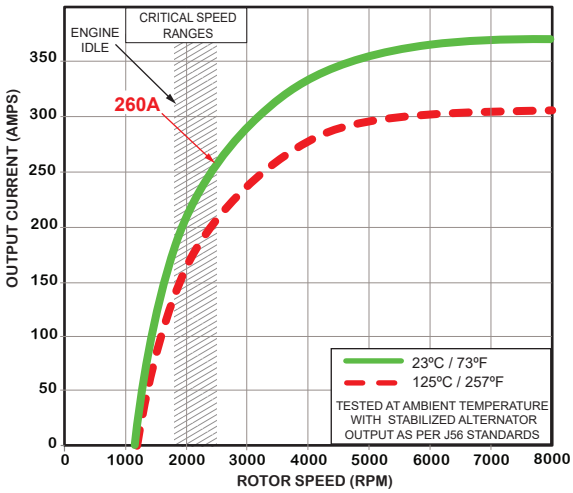
COMPARED TO: Leece-Neville & Delco Remy

SPECIFICATIONS	350A 170 Series	Leece-Neville 350A BLP Series	Leece-Neville 325A BLP Series	Delco Remy 320A 40SI
Part Number	**100-17102 100-17112**	**BLP4004H**	**BLP4002H**	**8600628 8600634**
Brushless Design	**YES**	YES	YES	YES
Mounting types available	**J180 & PAD**	PAD	PAD	J180 & PAD
Output Stabilized:				
6000RPM @ 23ºC / 73ºF	**364A**	357A	332A	320A
2000RPM @ 23ºC / 73ºF	**210A**	207A	183A	153A
6000RPM @ 125ºC / 257ºF	**302A**	296A	269A	N/R*
2000RPM @ 125ºC / 257ºF	**166A**	162A	138A	N/R*
Efficiency	**73%**	72%	72%	72%
Temperature Rating	**-40º to 125ºC/257ºF**	-40º to 125ºC / 257ºF	-40º to 125ºC / 257ºF	-40º to 115ºC / 239ºF
Continuous RPM	**8000**	8000	8000	8000
Rotation	**Bidirectional**	CW	CW	CW
Optional Air intake cover	**YES**	NO	NO	NO
Weight: lbs/kg	**38 /17.4**	37/16.8	37/16.8	31/14.1
Overall Length: mm / in	**275/10.83**	284/11.18	278/10.94	274/10.79
Number of Diodes	**20**	12	12	12
Ground	**Ins. or Neg.**	Insulated	Insulated	Negative
E-Coating Corrosion Resistant	**YES**	YES	YES	NO
Voltage Regulator: Internal	**YES**	YES	YES	YES
Self-Exite	**YES**	YES	YES	YES
Ind. Light	**YES**	YES	YES	YES
Remote Sense Regulation	**YES**	YES	YES	YES
Soft Start Delay - SSD	**YES**	NO	NO	NO
Load Response Control - LRC	**YES**	NO	NO	NO
Adjustable Voltage Option	**YES**	NO	NO	NO
Overvoltage Shut-Down - OSD	**YES**	NO	NO	NO

* Not Rated for 125ºC / 257ºF

12V-350A

PERFORMANCE CURVES



EFFICIENCY / TORQUE

14Volt - 23ºC / 73ºF Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	180	73	18.3
2000	211	72	19.6
3000	287	68	18.8
4000	325	65	16.7
5000	343	63	14.6
6000	364	61	13.3

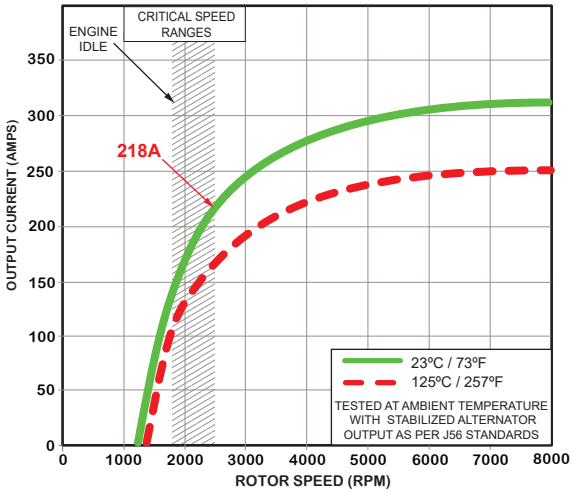
DelStar® 300A — Series 170

COMPARED TO: Delco Remy & Leece-Neville

SPECIFICATIONS	300A 170 Series	Delco Remy 300A 40SI	Delco Remy 275A 40SI	Leece-Neville 270A 4000 Series
Part Number	**100-17106 100-17115**	**8600298 8600300**	**8600094 8600280**	**4867JB 4967PGH**
Brushless Design	**YES**	YES	YES	NO
Mounting types available	**J180 & PAD**	J180 & PAD	J180 & PAD	J180 & PAD
Output Stabilized:				
6000RPM @ 23ºC / 73ºF	**309A**	300A	275A	270A
2000RPM @ 23ºC / 73ºF	**170A**	125A	121A	150A
6000RPM @ 125ºC / 257ºF	**247A**	N/R*	N/A	N/A
2000RPM @ 125ºC / 257ºF	**131A**	N/R*	N/A	N/A
Efficiency	**72%**	70%	N/A	61%
Temperature Rating	**-40º to 125ºC / 257ºF**	-40º to 115ºC / 239ºF	-40º to 125ºC / 257ºF	-40º to 125ºC / 257ºF
Continuous RPM	**8000**	8000	8000	8000
Rotation	**Bidirectional**	CW	CW	CW
Optional Air intake cover	**YES**	NO	NO	NO
Weight: lbs/kg	**38 / 17.4**	31 / 14.1	31 / 14.1	32 / 14.5
Overall Length: mm / in	**275 / 10.83**	274 / 10.79	284 / 11.18	280 / 11.02
Number of Diodes	**20**	12	12	12
Ground	**Insulated**	Negative	Insulated	Negative
E-Coating Corrosion Resistant	**YES**	NO	NO	NO
Voltage Regulator: Internal	**YES**	YES	YES	YES
Self-Exite	**YES**	YES	YES	YES
Ind. Light	**YES**	YES	YES	YES
Remote Sense Regulation	**YES**	YES	YES	YES
Soft Start Delay - SSD	**YES**	NO	NO	NO
Load Response Control - LRC	**YES**	NO	NO	NO
Adjustable Voltage Option	**YES**	NO	NO	NO
Overvoltage Shut-Down - OSD	**YES**	NO	NO	NO

12V-300A

PERFORMANCE CURVES



EFFICIENCY / TORQUE

14Volt - 23ºC / 73ºF Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	142	73	14.4
2000	170	72	15.8
3000	247	68	16.2
4000	275	65	14.1
5000	290	63	12.3
6000	309	61	11.3

COMPETITIVE INTERCHANGE

DELSTAR Brushless				Delco Remy Brushless		Leece-Neville Brush Design		C.E. Niehoff Brushless	
Mounting	Part No.	Series	Amps Output @ 2000 / 6000 rpm	40SI Series Part No.	Amps Output @ 2000 / 6000 rpm	4000 Series Sales No.	Amps Output @ 2000 / 6000 rpm	C Series Part No.	Amps Output @ 2000 / 6000 rpm
PAD	**100-17113**	**171**	**12V 145 / 250A**	8600338	100 / 240A	4940PA 4948PA 4951PAH	125 / 200A		
						4958PA 4959PA	140 / 220A		
						4911PA 4913PA	140 / 245A		
						BLP4007H*	124 / 240A		
	100-17119	**171**	**12V 152 / 285A**	8600094	100 / 275A	4949PGH 4967PGH 4942PA 4947PA	150 / 270A		
	100-17115	**170**	**12V 170 / 300A**	8600298	125 / 300A			C524	180 / 300A
	100-17117	**171**	**12V 157 / 345A**	8600628	150 / 320A	4962PA, H 4962PGH	150 / 320A		
	100-17112	**170**	**12V 210 / 350A**	8600628	150 / 320A	BLP4002H*	183 / 325A		
						BLP4004A*	212 / 350A		
	100-17212	**170**	**24V 114 / 200A**			4964PA	100 / 200A	C528	24V 100 / 175A
						4980PAH 4989PAH 4989PGH	100 / 190A		
J180 **4" Hinge**	**100-17107**	**171**	**12V 145 / 250A**	8600390	100 / 240A	4860JB 4861JB 4863JB 4868JGH 4884JB	125 / 200A		
						4885JB 4887JB	140 / 220A		
						4869JB 4873JB	140 / 245A		
	100-17109	**171**	**12V 152 / 285A**	8600280	100 / 275A	4867JB 4870JB 4871JB	150 / 270A		
	100-17106	**170**	**12V 170 / 300A**	8600280 8600300	100 / 275A 125 / 300A	4818JB 4867JB 4870JB 4871JB	150 / 270A	C330	160 / 250A
	100-17108	**171**	**12V 157 / 345A**	8600634	150 / 320A	4890JB, H 4817JB	150 / 320A		
	100-17102	**170**	**12V 210 / 350A**	8600634	150 / 320A	4890JB, H 4817JB	150 / 320A		
	100-17202	**170**	**24V 114 / 200A**			4740JB	100 / 200A		

* Brushless Design

170-SBS-COM 150615

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